



1        4.    The receiver of claim 1 further comprising  
2    an automatic gain controller and an amplifier at the  
3    respective output of each of said plurality of  
4    bandpass filters.

1        5.    The receiver as claimed in claim 4 further  
2    comprising at least one tunable bandpass filter in  
3    said plurality of said tunable bandpass filters being  
4    tuned to a first desired frequency and another of said  
5    tunable bandpass filters in said plurality of said  
6    tunable bandpass filters being tuned to a second  
7    undesired frequency; and

8        wherein said automatic gain controller and  
9    amplifier at said output of said tunable bandpass  
10   filters that is tuned to said undesired frequency is  
11   set at a minimum gain for absorbing said undesired  
12   frequency and providing additional receiving power for  
13   said first desired frequency.

1        6.    A method for reception of multiple channels  
2    on a single broadcast band, said method comprising the  
3    steps of:

4        receiving a multi-frequency analog RF signal;  
5        filtering said multi-frequency analog RF signals  
6    into a predetermined number of desired analog  
7    frequencies;

8        combining said predetermined number of analog  
9    frequencies into a single combined analog signal;

10       digitizing said single combined analog signal;  
11    and

12       simultaneously selecting a plurality of desired  
13    signals having different frequencies from a digital  
14    tuner that receives said digitized combined signal.

1           7.    The method as claimed in claim 6 wherein  
2   said step of filtering further comprises filtering  
3   said multi-frequency analog RF signals into a  
4   predetermined number of desired analog frequencies  
5   through a plurality of independently tunable bandpass  
6   filters.

1           8.    A method for rejecting an undesired  
2   frequency signal in a single broadcast band while  
3   improving reception of a desired frequency signal in  
4   the broadcast band, said method comprising the steps  
5   of:

6           receiving a desired signal from the broadcast  
7   band;

8           filtering said desired signal through a first  
9   tunable bandpass filter;

10          receiving an undesired signal from the broadcast  
11   band;

12          filtering said undesired signal through a second  
13   tunable bandpass filter;

14          adjusting an automatic gain control for said  
15   second tunable bandpass filter to a minimum gain  
16   thereby absorbing said undesired signal; and  
17   digitizing said desired signal.